

Chris Warner

AQUATIC ENVIRONMENTAL SYSTEMS PTY LTD

February 2015

RESUME



Chris Warner
with
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2012

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Personal Details

Name:Christopher John WARNER
Date of Birth:13 January 1951
Nationality:Australian
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Belli Park Queensland 4562
Australia
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Qualifications, Certifications and Associations

Trade Certificate (Fitting, Machining and Welding)
Tool Making Certificate
Certificate of Mechanical Engineering
Certificate of Composites Engineering
Registered Professional Diver – AS 2815

Memberships

WAZA (World Association of Zoos and Aquariums)
ASZK (Australian Society of Zoo Keepers)
(Peak body for zoo keeping professionals)
Zoo Aquarium Association Australasia
(Peak body for zoological park & aquarium principals)
IOA (International Ozone Association)
(Association of professional engineers involved in ozone & UV systems design)
AWA (Australian Water Association)
(Peak body for Australian water quality engineers)
AALSO (Aquatic Animal Life Support Operators)
(Peak USA body for LSS designers & operators)
AFTCRA (Australian Freshwater Turtle Conservation & Research Association)
(Turtle research & conservation group)
EAAM (European Association for Aquatic Mammals)
(Peak body for Marine Mammal Standards)
QWRC (Queensland Wildlife Rehabilitation Council)
(Peak wildlife conservation body)
IMATA (International Marine Animal Trainers Association)

Professional History / Aquarium Related Experience

Aquatic Environmental Systems Pty Ltd

*Managing Director
&
Principal Design Engineer*

Current

Ocean park Corporation – Polar Exhibit

LSS rectification and upgrade design, construction supervision and commissioning

Porosus Crocodile Farm

Filtration plant design, supervision of construction & supervision of commission

Merlin Entertainment (Sea Life centres)

Design upgrade of the 2 main Darling Harbour Aquarium LSS

Design upgrade for the ocean water intake system for the Mooloolaba Aquarium

2010 -2013

Ocean Park Corporation – Sharks Alive

LSS design, general design advice, supervising LSS construction & systems commissioning supervision

Resorts World Sentosa – Marine Park - Singapore

Aquarium Specialist Works(“ASW”) Consultant in association with Crossley Architects, responsible for all ASW design & documentation including LSS, acrylic viewing panels ,exhibit design, artificial environment replication, specialist waterproofing, husbandry support areas, curatorial advice, species selection & compatibility advice, tender documentation, tender review, contractors selection, contract administration & supervision, systems commissioning, initial start up & ongoing assistance. When completed this will be the largest aquarium & marine park facility in the world, currently in final commissioning stage.

Zoos Victoria - Australia

LSS review & upgrade for the Melbourne Zoo Wild Sea's facility LSS, operational & maintenance advice.

2008-2010

Ocean Park Corporation- Marine Mammal Breeding Facility – Hong Kong

Design of Life Support System for holding facility for captive marine mammals including 24 Beluga whales.
(Project completed 2010)

Australian Institute of Marine Science - Open Ocean Simulator – (Qld) Australia

Workshop & report with AIMS management re future direction & design brief imperatives for proposed Open Ocean Simulator water supply, filtration & storage system.

The Blue Planet, Denmark

Aquarium Specialist Works consultant to Advanced Aquarium Technologies for all required aspects of aquarium design, design of Life Support System & specialist components.

Taronga Zoo Conservation Society - (Syd) Australia

Advice re retro fitting waterproofing systems for the seal exhibits.
Advice re life support & water reclamation system at Taronga Zoo.

Reef HQ (GBRMPA) – (Qld) Australia

In conjunction with Thorburn Consultants (NZ). Review all operational practices & all technical systems including Life Support System. Provide advice & guidance on future direction & planned upgrade of systems & operation.

Sydney Attractions (Village Roadshow) – (NSW) Australia

In association with A.T.T. provide advice regarding upgrading of Life Support System for the new Dugon Pool at the Darling Harbour Aquarium.

AAT/Leighton Contractors - Hong Kong

Revised & upgraded design of Life Support System for Hong Kong Ocean Park Grand Aquarium project. Assistance to contractor with design & value engineering of building structure & Aquarium Specialist Works components/construction & commissioning supervision.

Australia Zoo – (Qld) Australia

Life Support System design & installation supervision for Alligator Holding Pool & Salt Water Crocodile Exhibit. *(Project completed 2009)*

Melbourne Zoo – (Vic) Australia

Advice re Life Support System upgrade for temporary Sea Lion holding facility.

Redco Pty Ltd – Darwin Crocodile Tourist Facility – (N.T) Australia

Aquarium Specialist Works designer & installation supervisor.
(Life Support System, acrylic, artificial environment, exhibit design, husbandry systems, exhibit lighting, curatorial advice) in association with Crossley Architects. *(Project completed late 2008).*

Ocean Park Corporation Hong Kong – Vet Hospital Facility

Life Support Systems consultant, designer & installation supervisor. *(Project completed mid 2009).*

Brisbane City Council – Wynnum Wading Pool – (Qld) Australia

Ocean water pumping station & marine filtration system designer & installation supervisor for chemical residual free 6 million litre recreational pool. *(Project completed early 2009).*

2005 - 2008

Qld DPI Australia – Fisheries Research Station

Design of brood stock holding facility Life Support disinfection system. *(Project completed 2008).*

Reed Constructions- (Vic & Syd)) Australia

Preliminary Aquarium Specialist Works advice re Melbourne Zoo “Stories from the Sea” project tender. Advice re remedial work required for rectification of Sea Lion holding facilities at Taronga Zoo, Sydney.

Australia Zoo – (Qld) Australia

Life Support System consultant & designer & installation supervisor for upgrade of the zoo’s aquatic exhibits & water quality systems.

AAT/ICM

Safisa Aquarium (Life Support System, artificial environment, husbandry systems, design & advice). *(Project complete 2008)*

Thorburn Consultants/Oceanis

Life Support System & general exhibit advice re Melbourne Aquarium Penguin Facility. *(Project completed late 2008)*

Genesis Pty Ltd – Bundaberg Council Turtle Discovery Centre– (Qld) Australia

Aquarium Specialist Works & Curatorial consultant (Life Support System, acrylic, artificial environment, husbandry systems, exhibit lighting, curatorial advice) *(Project abandoned 2008)*

Maunsells/OPC – Hong Kong

Astounding Asia Exhibit Water System consultant & designer. *(Consultancy complete 2008)*

Brisbane City Council – various projects – (Qld) Australia

Water conservation & treatment consultant.
Water playground & swimming pool design consultant.

Qld DPI, Cairns, Australia – Fisheries Research Station

Design & advice re water supply pumping, filtration, treatment & budget estimate. *(Project complete 2008)*

AAT/Oceanis – Abu Dhabi

Abu Dhabi Aquarium - Life Support System artificial environment & general architectural advice. *(Consultancy complete 2007)*

Underwater World, Mooloolaba/Oceanis – (Qld) Australia

Design & installation supervision of main aquarium thermal control system *(Project complete 2007)*

2003 - 2005

Vilnius Mall Aquarium, Lithuania

Life Support System design & supervision. *(Project complete December 2005)*

Reed Group (Main Contractor, Taronga Zoo – Australian Coastline Precinct (NSW) Australia

Life Support System design consultant for design review & upgrade. *(Consultancy complete October 2005)*

Tivole Concert Hall Aquarium, Copenhagen

Life Support System design & supervision. General Aquarium Specialist Works consultation. *(Project complete November 2005)*

Hangdarm Island Turtle Kingdom Aquarium - South Korea

Concept design & Aquarium Specialist Works principal consultant. *(Project abandoned 2005)*

AAT/Kelly Tarltons Underwater World – New Zealand

Design & supervision - Life Support System upgrade. *(Project complete 2004)*

Sea World - Shark Bay Project – (Qld) Australia

Life Support System design & aquarium design advice. Manufacture, installation & commissioning of Life Support System. General advice re environment, acrylic viewing panels & husbandry support systems. *(Project complete 2004.)*

Cairns Rainforest Casino Aquarium – (Qld) Australia

Design, supply & install acrylic window for Cairns Rainforest Casino Aquarium. *(Project complete 2004.)*

1995 - December 2003

Shanghai Ocean Aquarium (PRC)

Principal advisor to designing architect.

Principal Aquarium Specialist Works designer. Responsible for design, contract documentation, contract supervision/administration for Life Support Systems, acrylic viewing panels, specialist waterproofing & husbandry areas.

Advice to engineers re building structure & mechanical services.

Production of Operations Manual, supervision of Life Support System commissioning, review & checking through defects liability period, completion certification, ongoing advice.

Taronga Zoo - (NSW) Australia

Asian Elephant & Australian Coastline Precinct

Life Support System review, costing & advice. General design advice re husbandry & display areas.

Living Ocean International

Director – Living Ocean International P/L, advising Board of Directors & shareholders re aquarium industry & systems (1995-1999).

Consultant – selecting & training of Aquarium Specialist Works engineering, design, husbandry & installation staff.

Aquarium Specialist Works advice re various projects.

Design, development & production of extensive range of aquarium & aquaculture life support & husbandry equipment.

Marketing & public relations services on behalf of Living Ocean International & Living Ocean International Constructions to prospective clients.

Hassells Architects - (NSW) Australia

Concept development plans – Taronga Zoo (Australia) “Australian Coastline & Asian Precinct”.
Consulting engineer - Habitat & Life Support System.

Dalian Sun-Asia Aquarium (PRC)

Principal designer - contract supervision & administration – Life Support System & artificial environment upgrade. System commissioning & staff training.

Hong Kong Ocean Park – Pinniped Holding & Quarantine Facility

Principal Life Support System designer, construction supervisor & contract administration.
Supervision of Life Support System commissioning & staff training.

Guangzhou Ocean World Aquarium (PRC)

Principal adviser to designing Architect.
Principal Aquarium Specialist Works designer.
Project Manager & Aquarium Specialist Works supervisor.
Advice to engineer re building structure & mechanical service.
Commissioning of all systems, staff training, supervising introduction of fish, reptiles, sea lions & dolphins to the facility, after system commissioning.
Training of aquarists & curator.

Le Grande Chene Aquarium – New Caledonia

Principal concept designer - Life Support Systems & acrylic viewing panels, general aquarium specialist works advice to client & architect.

Airport Water Feature, Kuala Lumpur

Habitat, water systems designer & contract supervisor.

Smorgy's Restaurant Aquarium – Geelong (Vic) Australia

Principal Aquarium Specialist Works designer, construction supervisor & contract administration.

Gondwana Rainforest Sanctuary – Fish & Reptile Pool - (Qld) Australia

Systems upgrade designer & project manager.

Xiamen Underwater World (PRC)

Design review & advice to developer.

Hualien Ocean Park (Taiwan)

Concept habitat, Life Support Systems & exhibit display designer. Preparation to tender documentation stage.

Suzhou Tahai Underwater World (PRC)

Concept design of habitat, Life Support System, exhibit display & husbandry areas.

1989 – 1995

1995 - Founding member:

L.O.D.G (Living Ocean Design Group)
L.O.I (Living Ocean International Pty Ltd)
LOIC (Living Ocean Constructions Pte Ltd)

Undersea World, Cairns (Qld) Australia

Design of aquarium habitat, aquarium structure, Life Support Systems, husbandry support areas, acrylic viewing panels, specialist lighting & exhibitory. Advice to Directors re husbandry, management systems, administration & marketing.

Underwater World Mooloolaba - Stage III – (Qld) Australia

Principal Aquarium Specialist Works designer.
Advice re upgrade of display, interpretation & retail/sales areas.

Underwater World Mooloolaba – Stage II – (Qld) Australia

Principal advisor to designing architect, responsible for design of habitat, husbandry areas, Life Support Systems, acrylic viewing panels, small aquarium structure & specialist lighting.
Curator responsible for procurement, permits, temporary holding, transport & introduction of fish, reptiles & sea lions, staff training, animal training & husbandry protocols.

Underwater World Mooloolaba (Qld) Australia

Consultant – habitat display exhibitory, acrylic viewing panel installation, Life Support & husbandry support area advice. Management advice re marketing, retail, human resources, cash control security & customer relations.
Curator/Manager (1989-1995) – responsible to the Board of Directors for all operations of the aquarium complex.

WA Dept. of Treasury/Underwater World Sentosa (Singapore)

Aquarium Specialist Works consultant for retro design & systems commissioning. Advice re husbandry, management systems, administration & marketing. Selection of key professional & technical staff.

Underwater World, Jakarta

Conceptual design advice to developer.

1987-1988

Marinescape Corporation, New Zealand

Consultant – Aquarium Specialist Works design, Darwin Aquarium.
Consultant – Aquarium Specialist Works design, Underwater World, Perth.
Consultant – conceptual design, Underwater World, Sentosa, Singapore

Australia's Underwater World - (NSW) Australia

Principal designer & Aquarium Specialist Works engineer.

Life Support System, exhibit & habitat designer.
Aquarium Specialist Works supervisor.
Exhibit collection manager.
Staff training.
Advice re retail & sales areas, management systems, administration & marketing.

1974-1987

Manly Marineland Aquarium (Syd) Australia

Managing Director & curator.
Responsible for all operations & continuing upgrading of the aquarium complex.

* Member & technical advisor to Aquarium Society of New South Wales.

Professional References

Lu Tien Song	Project Manager - Shanghai Ocean Aquarium
Craig Thorburn	Principal Curator "The Merlin Group"- Aquariums
Suzanne Gendron	Life Science Director – Ocean Park Corp. HKG
Grant Abel	Principal Curator – Ocean Park Corp. HKG
Dr. Paolo Martelli	Chief Veterinary Officer – Ocean Park Corp. HKG
Abraham Wong	Manager, Life Support Systems at Ocean Park Corp. HKG
John West	Head of Technical Services - Taronga Park Zoo, NSW
Trevor Long	Marine Scientist/Manager - Sea World, Qld
Kevin Tanner	Director – Melbourne Zoo. Vic
Steve Menzies	Curator – Townsville Aquarium, Qld
Barry Bruce	Scientist – CSIRO, Tasmania
Dr. Ove Gouldberg	Scientist – Sydney University, NSW
John Greig	Partner – Deloitte Ross Tohmatsu, Qld
Dr Xian Feng Zhang	Scientist - Wuhan Institute of Aquatic Biology (China)
Alan Griffith	Principal - Alan Griffith Architects
Mike Murphy	Principal – Mike Murphy P/L, New Zealand
Wang Wei	Curator – Dalian Sun Asia Aquarium (China)
Sze Wei Lian	Former Manager – Resorts World Sentosa
William Chen	Lutan Pole Aquarium Group (China)
Phil Barlow	Director, Aquatic Treatment Technology
Tom Jones	Reed Constructions Australia P/L
Ian Smith	Qld Dept. of Primary Industries
John Langmead	Director, Advanced Aquarium Technologies P/L
Cam Crossley	Crossley Architects P/L
Matthew Lawson	Brisbane City Council (City Design)
Brett Somerfeld	Brisbane City Council (City Design)
Robin Devries	Queensland (Cairns) DPI Fisheries
Wes Mannion	Australia Zoo
Darren Beasley	Leighton Asia Manager
Walter Kerr	Projects Manager – OPC HKG
Patrick Too	Director – Resorts World Sentosa
David McLeod	Project Architect – Resorts World Sentosa
Robin Friday	Operations Manager – Resorts World Sentosa